Amendments to the Claims

- 1. (currently amended) An isolated A purified polypeptide having an amino acid sequence comprising the amino acid sequence of SEQ ID NO: 4.
- 2. (currently amended) The isolated purified polypeptide of claim 1 which has an amino acid sequence that consists essentially of the amino acid sequence of SEQ ID NO:

 4.

3-14. (canceled)

- 15. (withdrawn, previously presented) An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising the amino acid sequence of SEQ ID NO: 4.
- 16. (withdrawn) The nucleic acid of claim 15 that comprises the nucleotide sequence of Seq. ID No. 5.
- 17. (withdrawn, previously presented) The nucleic acid of claim 15 that hybridizes under highly stringent conditions to the complement of the nucleotide sequence of SEQ ID NO: 5.

18-35. (canceled)

- 36. (withdrawn, previously presented) An isolated antibody that selectively binds to the polypeptide of claim 1.
- 37. (withdrawn, previously presented) The antibody of claim 36 that selectively binds to the polypeptide of SEQ ID NO: 4.
 - 38. (withdrawn) The antibody of claim 37 which is a monoclonal antibody.
 - 39. (withdrawn) The antibody of claim 37 which is a polyclonal antibody.
 - 40-45. (canceled)
- 46. (withdrawn, previously presented) A method for inhibiting Streptococcus uberis from adhering onto and/or internalizing into bovine mammary epithelial cells comprising exposing the cells to an antibody that selectively binds to the polypeptide of claim 1.
- 47. (withdrawn, previously presented) The method of claim 46 wherein the antibody selectively binds to the polypeptide of SEQ ID NO: 4.

48. (new) A purified polypeptide having an amino acid sequence consisting of the amino acid sequence of SEQ ID NO: 4.